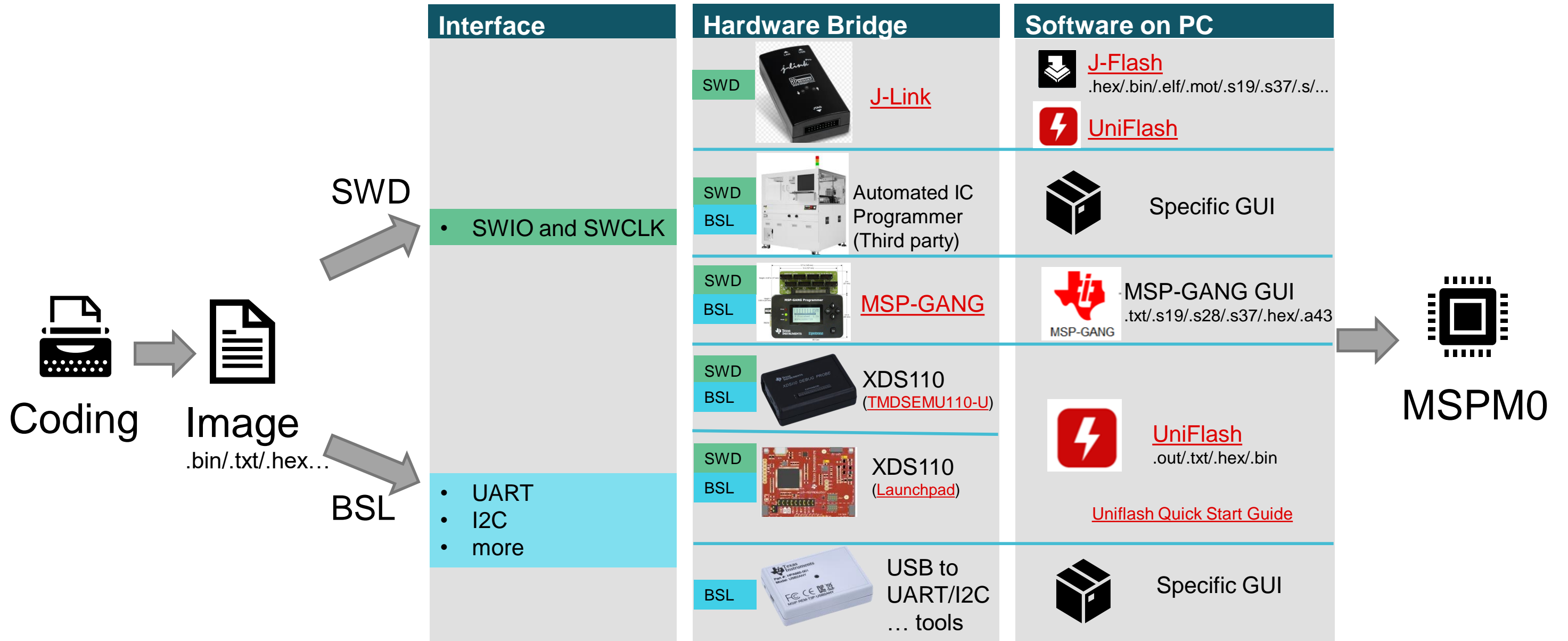


Production Guide with MSPM0

— MSPM0 ecosystem training series

Presented by Gary Gao

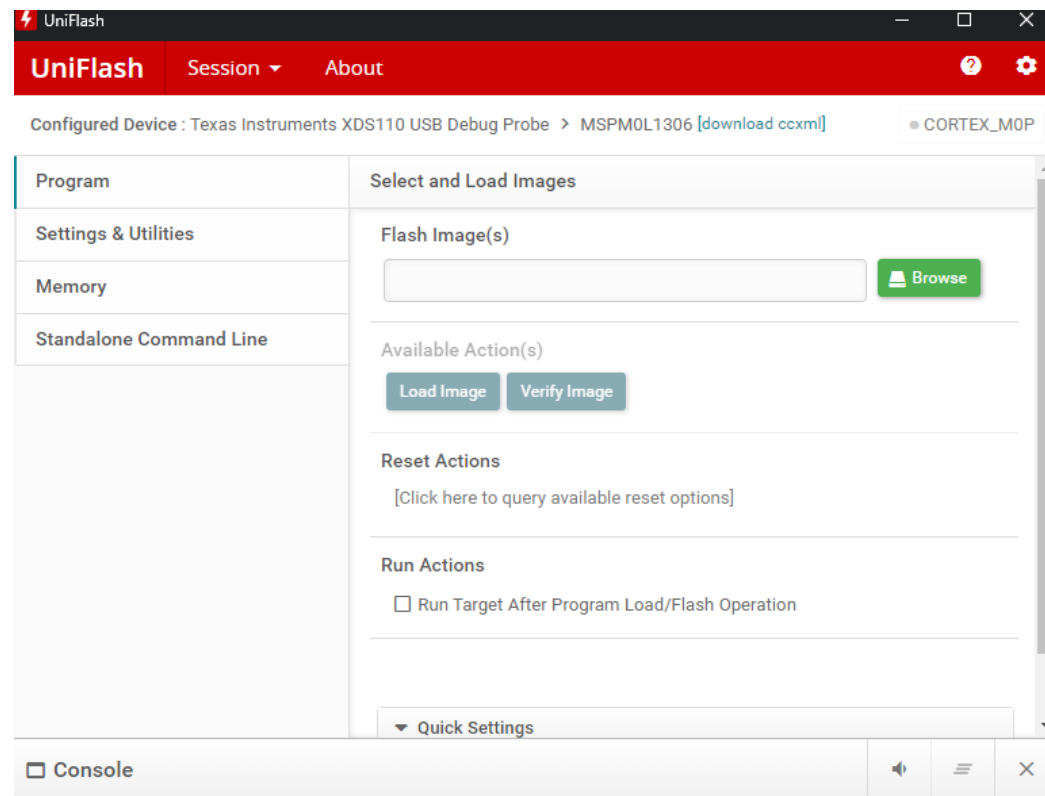
MSPM0 Programming Method during Production



MSPM0 Programming Method - UniFlash

UniFlash: Image download software tool

- Support running at Windows, MacOS and Linux
- Support command line mode(CLI)
- Support interface: SWD, BSL
- Hardware request: XDS110, J-Link and other TI debuggers
- Support function: Image download, memory readout
- More details please refer to [Uniflash Quick Start Guide](#)



PC UniFlash



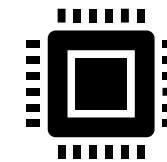
J-Link



TMDSEMU110-U



XDS110



MSPM0

MSPM0 Programming Method – MSP-GANG

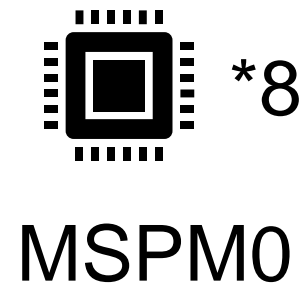
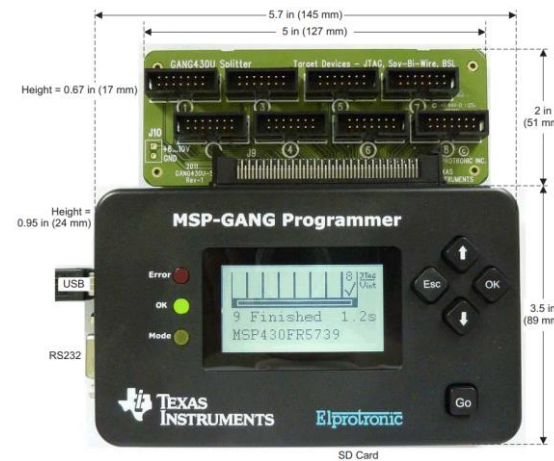
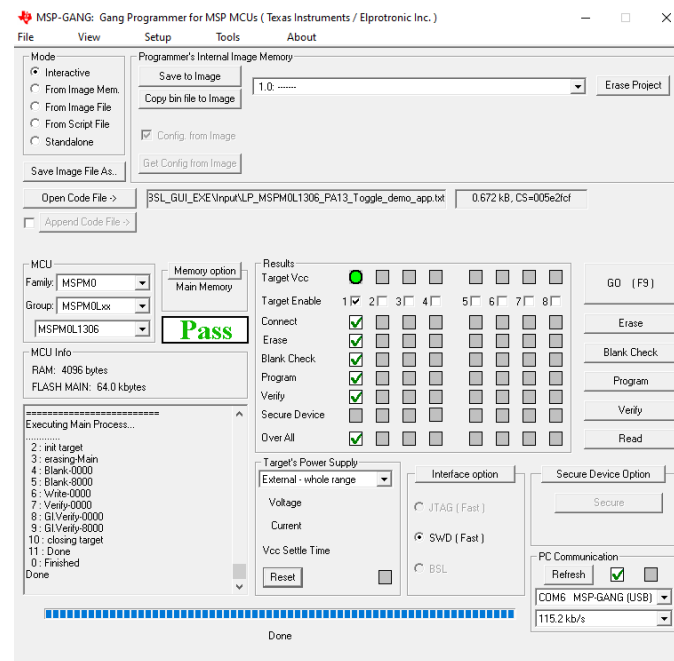
MSP-GANG: <https://www.ti.com/tool/MSP-GANG>

- Quickly and reliably program Flash or FRAM-based MSP devices via RS-232 or USB interface
- Several programming modes:

Mode	Description
Interactive Mode	Programming while connected to PC using the MSP GANG Programmer GUI
Program from Image	An image can be stored, This allows users to program MSP devices standalone, without a PC
Programming from Script	Enables developers to automate more complicated programming procedures.

- SD Card slot for storing images
- Supports up to 8 targets simultaneously
- More details please refer to its user's guide(<https://www.ti.com/lit/slau358q>)

PC GUI
(Optional)



MSPM0

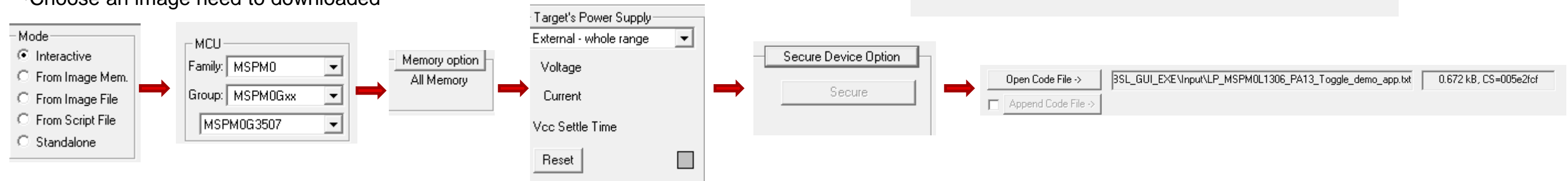
MSP-GANG Programming Example with SWD

Step 1 Hardware connection (SWD)

MSP-GANG	MSPM0	Comments
5-TMS	SWDIO	
7-TCK	SWCLK	
11-RST	nRST	
9-GND	GND	
2-VCC Tool	3v3	Used when powered by MSP-GANG
4-VCC_TARGET	3v3	Used when is powered external.

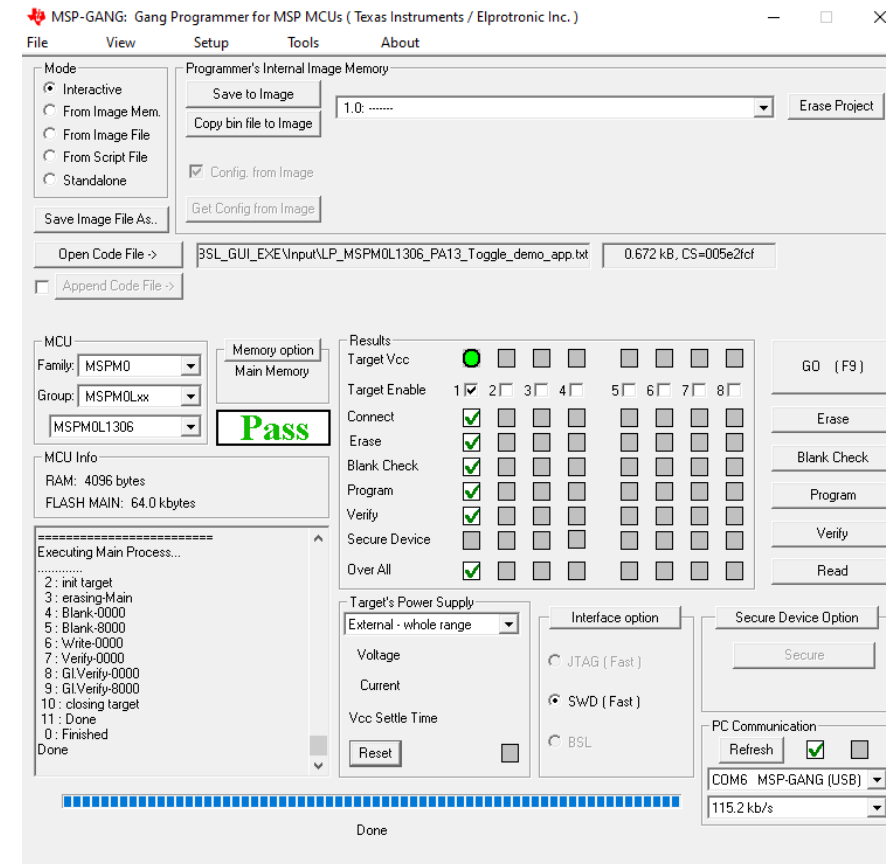
Step 2 GUI setup (The order can be changed except first step)

- Choose a mode (This example use interactive)
- Choose device
- Memory setting (option)
- Power supply setting
- Secure device option (option)
- Choose an image need to downloaded



Step 3 Download image file

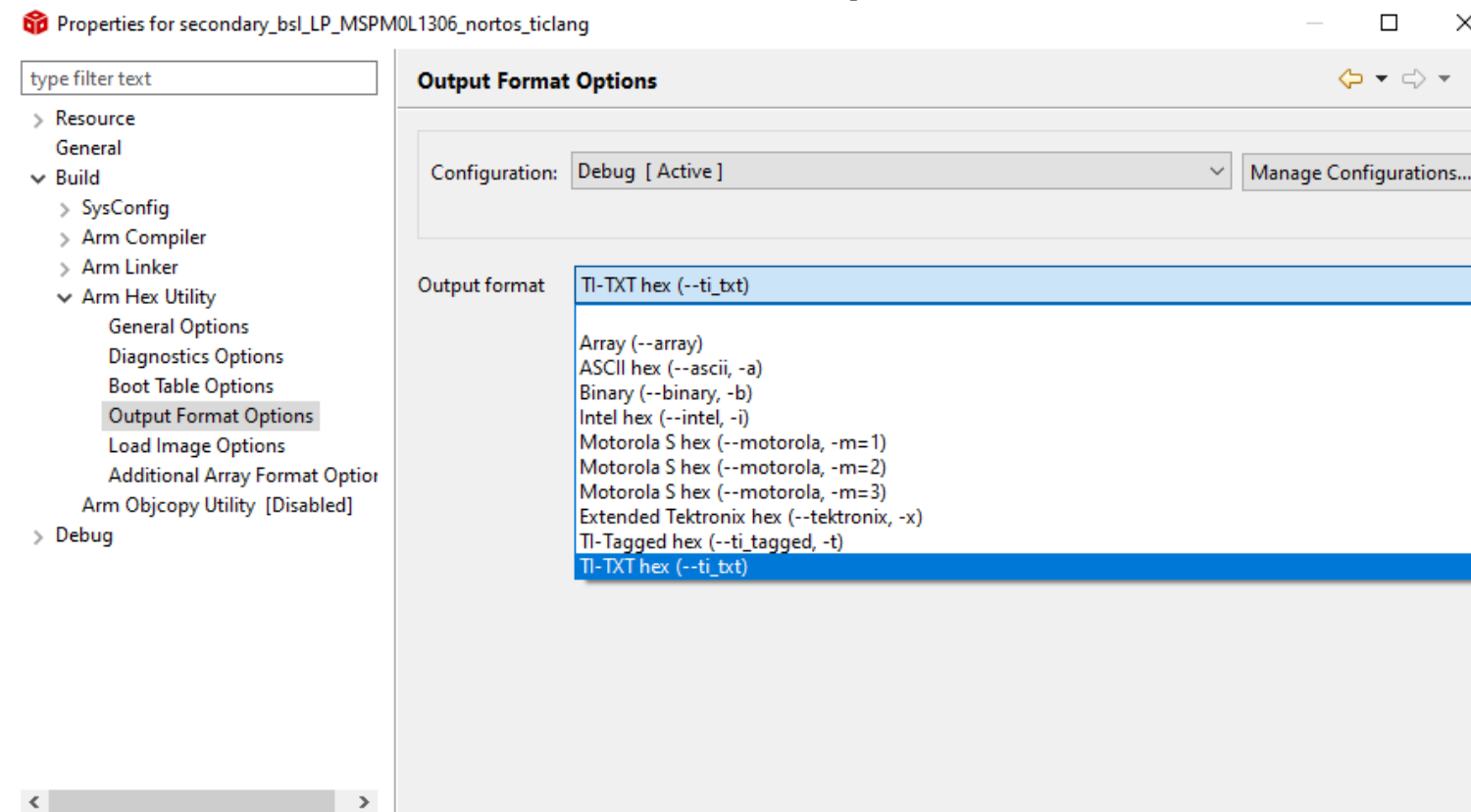
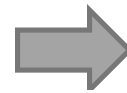
- Click the go button to download the image



MSPM0 Image File



Coding



Image

Image file generation with CCS

Note: Released version is recommended when supported ⁶

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- [Ti.com.cn](http://ti.com.cn)
- [WeChat \(德州仪器公众号\)](#)
- [Bilibili](#)
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